

#### ABSTRACT OF DISCLOSURE

A composite cooking apparatus, which may perform a heating operation using a plane heater and an induction heating operation using high frequency current together. A composite cooking apparatus of the present invention includes a plane heater and an induction heater installed below a heat resistant glass plate, as a composite heat source. The present invention may automatically determine material of a cooking container, and perform heating and cooking using a heat source suitable for the material of the cooking container. Further, if a rapid cooking mode is set, cooking is performed at high output power using both the two heat sources, thus shortening a cooking time.